APPENDIX





[ISREC-Server] Date: Thu May 23 5:00:25 MET 2002

		*					
resetting	resetting matrix to DNA ./wwwtmp/lalign/.1485.1.seq : 5271 nt						
version 1 U95825 scoring	calculates a glob on 2.0uPlease cit g matrix: DNA, ga identity;	ce: Myers a	and Miller	, CABIOS	(1989) 4: 5271 nt v 5253 nt		
	10 CCGGAGAGCCCCGGAC CCGGAGAGCCCCGGAC					::::::	
	70 CTGTCATGGCTCATTC ::::::::::::::::::::::::::::::::		::::::::::	::::::::	:::::::	::::::	
	130 TCAAGGAAATATCAGA TCAAGGAAATATCAGA 130					: : : : : :	
./wwwt U95825	190 TGAAAACTTTTATGGA ::::::::::::::::::::::::::::::			• : : : : : : :		::::::	
./wwwt U95825	250 TAGCTTTACATCTTGC :::::::::::::::::::::::::::::::::		::::::::	:::::::::::	:::::::	::::::	
./wwwt U95825	310 TGGTAGCCTGCTGCCT TGGTAGCCTGCTGCCT 310				:::::::	::::::	
*.	370 CCCCTGATAAACTAAA :::::::::::::::::::::::::::::		:::::::	::::::::		: : : : : :	
./wwwt	430 ATACAAAGAGCCCACA						

· * *

U95825	ATACAAAGAGCCCA	CAGTTCAATA	GGTATTTTT	ATTTGCTTGA	GAACATTGCT	TGGGTCA
	430	440	450	460	470	480
	490	500 ⁻	510	520	530	540
./wwwt	AGTCATATAACATA			- " -		
U95825	AGTCATATAACATA			· · · · · · · · · · · · ·		0
	490	500	510	520	530	540
	550	560	570	580	590	600
./wwwt	GAACCTTATTTCA	GTTATAAACA	ATGGCCACA			ATGGTAG
U95825	GAACCTTATTTTCA					
	550	560	570	580	590	600
	610	620	630	640	650	660
./wwwt	ACCTTATGAGCTCT	ATTATTTGTG	AAGGTGATAG	CAGTGTCTCAC	GGAGCTTTTG	GATACGG
			:::::::::::::::::::::::::::::::::::::::	: : : : : : : : : :		::::::
U95825	ACCTTATGAGCTCT					
	610	620	630	640	650	660
	670	680	690	700	710	7.20
./wwwt	TTTTAGTAAATCTG	GTACCTGCTC	ATAAGAATT	raaacaagca <i>i</i>	AGCATATGAT	TTGGCAA
U95825	TTTTAGTAAATCTG	STACCTGCTC 680	ATAAGAATTI 690	PAAACAAGCAA 700	AGCATATGAT 710	TTGGCAA 720
	070	1000	090		710	.720
	730	740	750	760	770	780
./wwwt	AGGCTTTACTGAAGA					TTTAATC
1105025	AGGCTTTACTGAAGA					
093023	730	740	750	760	770	780
	. — -			, 00	. , •	, , , , ,
				1		
-	790	800	810	820	830	840
./wwwt	AGGTTCTGATGCTT	GGGAAAACAT	CTATCAGCGA	ATTTGTCAGAC		0.10
	AGGTTCTGATGCTTC	GGAAAACAT	CTATCAGCGA	ATTTGTCAGAC	CATGTCTTT	GACTTAA
	AGGTTCTGATGCTT	GGAAAACAT	CTATCAGCGA	ATTTGTCAGAC	CATGTCTTT	GACTTAA
	AGGTTCTGATGCTTC :::::::::::::::::::::::::::::::::	GGGAAAACAT ::::::::: GGGAAAACAT 800	CTATCAGCGA ::::::::: CTATCAGCGA 810	ATTTGTCAGAC :::::::::: ATTTGTCAGAC 820	GCATGTCTTT :::::::: GCATGTCTCT 830	GACTTAA ::::::: GACTTAA 840
U95825	AGGTTCTGATGCTTC :::::::::::::::::::::::::::::::::	GGGAAAACAT ::::::::: GGGAAAACAT 800 860	CTATCAGCGA ::::::::: CTATCAGCGA 810 870	ATTTGTCAGAC ::::::::: ATTTGTCAGAC 820 880	GCATGTCTTT ::::::::: GCATGTCTCT 830 890	GACTTAA ::::::: GACTTAA 840
	AGGTTCTGATGCTTC :::::::::::::::::::::::::::::::::	GGGAAAACAT :::::::: :GGGAAAACAT 800 860 AATATTGATA	CTATCAGCGA ::::::::: CTATCAGCGA 810 870 GTCATTTGCT	ATTTGTCAGAC :::::::::: ATTTGTCAGAC 820 880 IGCTCTCTGTT	GCATGTCTTT SCATGTCTCT 830 890 TTTACCCCAG	GACTTAA ::::::: GACTTAA 840 900 CTTGAAT
U95825	AGGTTCTGATGCTTC :::::::::::::::::::::::::::::::::	GGGAAAACAT ::::::::::::::::::::::::::::::::	CTATCAGCGA :::::::::::::::::::::::::::::::::	ATTTGTCAGAC ATTTGTCAGAC 820 880 FGCTCTCTGTT	GCATGTCTTT SCATGTCTCT 830 890 TTTACCCCAG	GACTTAA ::::::: GACTTAA 840 900 CTTGAAT
U95825	AGGTTCTGATGCTT(:::::::::::::::::::::::::::::::::::	GGGAAAACAT ::::::::::::::::::::::::::::::::	CTATCAGCGA :::::::::::::::::::::::::::::::::	ATTTGTCAGAC ATTTGTCAGAC 820 880 FGCTCTCTGTT	GCATGTCTTT SCATGTCTCT 830 890 TTTACCCCAG	GACTTAA ::::::: GACTTAA 840 900 CTTGAAT
U95825	AGGTTCTGATGCTT(:::::::::::::::::::::::::::::::::::	GGGAAAACAT :::::::: GGGAAAACAT 800 860 AATATTGATA ::::::::: AATATTGATA 860	CTATCAGCGA ::::::::: CTATCAGCGA 810 870 GTCATTTGCT :::::::: GTCATTTGCT 870	ATTTGTCAGAC ELLER SERVICE BERNARD BERN	GCATGTCTTT S::::::::::::::::::::::::::::::::	GACTTAA ::::::: GACTTAA 840 900 CTTGAAT :::::: CTTGAAT 900
U95825 ./wwwt U95825	AGGTTCTGATGCTTC :::::::::::::::::::::::::::::::::	GGGAAAACAT :::::::: GGGAAAACAT 800 860 AATATTGATA ::::::::: AATATTGATA 860 920	CTATCAGCGA :::::::::::::::::::::::::::::::::	ATTTGTCAGAC ELLER STATEMENT STATEMEN	GCATGTCTTT SCATGTCTCT 830 890 TTTACCCCAG STTACCCCAG 890 950	GACTTAA ::::::: GACTTAA 840 900 CTTGAAT :::::: CTTGAAT 900 960
U95825 ./wwwt U95825	AGGTTCTGATGCTTC :::::::::::::::::::::::::::::::::	GGGAAAACAT SSEGGAAAACAT 800 860 AATATTGATA SSECSESSESSESSESSESSESSESSESSESSESSESSES	CTATCAGCGA :::::::::::::::::::::::::::::::::	ATTTGTCAGAC ELLER STATEMENT STATEMEN	GCATGTCTTT S:::::::: GCATGTCTCT 830 890 TTTACCCCAG S::::::::: TTACCCCAG 890 950 TAAACTACTG	GACTTAA ::::::: GACTTAA 840 900 CTTGAAT :::::: CTTGAAT 900 960 GCAAAAA
U95825 ./wwwt U95825	AGGTTCTGATGCTTC :::::::::::::::::::::::::::::::::	GGGAAAACAT ::::::::: GGGAAAACAT 800	CTATCAGCGA ::::::::::::::::::::::::::::::::	ATTTGTCAGAC ETTTGTCAGAC 820 880 FGCTCTCTGTT ETTTGTCTGTT 880 940 FACAAGTTGTT	GCATGTCTTT S::::::::: GCATGTCTCT 830 890 TTTACCCCAG S::::::::: TTACCCCAG 890 950 TAAACTACTG	GACTTAA ::::::: GACTTAA 840 900 CTTGAAT :::::: CTTGAAT 900 960 GCAAAAA
U95825 ./wwwt U95825	AGGTTCTGATGCTT(:::::::::::::::::::::::::::::::::::	GGGAAAACAT ::::::::: GGGAAAACAT 800	CTATCAGCGA ::::::::::::::::::::::::::::::::	ATTTGTCAGAC ETTTGTCAGAC 820 880 FGCTCTCTGTT ETTTGTCTGTT 880 940 FACAAGTTGTT	GCATGTCTTT S::::::::: GCATGTCTCT 830 890 TTTACCCCAG S::::::::: TTACCCCAG 890 950 TAAACTACTG	GACTTAA ::::::: GACTTAA 840 900 CTTGAAT :::::: CTTGAAT 900 960 GCAAAAA
U95825 ./wwwt U95825	AGGTTCTGATGCTTC :::::::::::::::::::::::::::::::::	GGGAAAACAT SSEGGAAAACAT 800 860 AATATTGATA SSEGO AATATTGATA 860 920 AATGATAATG AATGATAATG	CTATCAGCGA ::::::::::::::::::::::::::::::::	ATTTGTCAGAC ESTATE STATE	GCATGTCTTT S:::::::: GCATGTCTCT 830 890 TTTACCCCAG 890 950 TAAACTACTG 950 TAAACTACTG 950	GACTTAA ::::::: GACTTAA 840 900 CTTGAAT :::::: CTTGAAT 900 960 GCAAAAA :::::: GCGAAAA 960
U95825 ./wwwt U95825 ./wwwt U95825	AGGTTCTGATGCTTC :::::::::::::::::::::::::::::::::	GGGAAAACAT SISSING SAAAACAT 800 860 AATATTGATA SISSING SAATATTGATA 860 920 AATGATAATG AATGATAATG 920 980	CTATCAGCGA ::::::::::::::::::::::::::::::::	ATTTGTCAGAC ESTATE STATE	GCATGTCTTT S:::::::: GCATGTCTCT 830 890 TTACCCCAG 890 950 TAAACTACTG 950 1010	GACTTAA ::::::: GACTTAA 840 900 CTTGAAT :::::: CTTGAAT 900 960 GCAAAAA :::::: GCGAAAA 960 1020
U95825 ./wwwt U95825 ./wwwt U95825	AGGTTCTGATGCTTC :::::::::::::::::::::::::::::::::	GGGAAAACAT SSEGGAAAACAT 800 860 AATATTGATA SSEGGAAAACAT 800 AATATTGATA 860 920 AATGATAATG SSEGGAAAACAT 920 980 GATTCAGAAT	CTATCAGCGA ::::::::::::::::::::::::::::::::	ATTTGTCAGAC E:::::::::: ATTTGTCAGAC 820 880 FGCTCTCTGTT 880 940 FACAAGTTGTT 940 1000 AAAACAAGCCA	GCATGTCTTT S:::::::: GCATGTCTCT 830 890 TTTACCCCAG 890 950 TAAACTACTG 950 1010 ACTTTGGCAG	GACTTAA ::::::: GACTTAA 840 900 CTTGAAT :::::: CTTGAAT 900 GCAAAAA :::::: GCGAAAA 960 1020 TGCTACT
U95825 ./wwwt U95825 ./wwwt	AGGTTCTGATGCTTC :::::::::::::::::::::::::::::::::	GGGAAAACAT SSECTION STATE STAT	CTATCAGCGA ::::::::::::::::::::::::::::::::	ATTTGTCAGAC E:::::::::: ATTTGTCAGAC 820 880 FGCTCTCTGTT 880 940 FACAAGTTGTT 940 1000 AAAACAAGCCA	GCATGTCTTT S:::::::: GCATGTCTCT 830 890 TTTACCCCAG 890 950 TAAACTACTG 950 1010 ACTTTGGCAG ACTTTGGCAG	GACTTAA ::::::: GACTTAA 840 900 CTTGAAT :::::: CTTGAAT 900 GCAAAAA :::::: GCGAAAA 960 1020 TGCTACT :::::: TGCTACT
U95825 ./wwwt U95825 ./wwwt	AGGTTCTGATGCTTC :::::::::::::::::::::::::::::::::	GGGAAAACAT SSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSS	CTATCAGCGA ::::::::::::::::::::::::::::::::	ATTTGTCAGAC E:::::::::: ATTTGTCAGAC 820 880 FGCTCTCTGTT 880 940 FACAAGTTGTT 940 1000 AAAACAAGCCA	GCATGTCTTT S:::::::: GCATGTCTCT 830 890 TTTACCCCAG 890 950 TAAACTACTG 950 1010 ACTTTGGCAG	GACTTAA ::::::: GACTTAA 840 900 CTTGAAT :::::: CTTGAAT 900 GCAAAAA :::::: GCGAAAA 960 1020 TGCTACT :::::
U95825 ./wwwt U95825 ./wwwt	AGGTTCTGATGCTTC :::::::::::::::::::::::::::::::::	GGGAAAACAT SSECTION OF THE PROPERTY OF THE PRO	CTATCAGCGA ::::::::::::::::::::::::::::::::	ATTTGTCAGAC E:::::::::: ATTTGTCAGAC 820 880 FGCTCTCTGTT 880 940 FACAAGTTGTT 940 1000 AAAACAAGCCA E::::::::: AAAACAAGCCA 1000	GCATGTCTTT S:::::::: GCATGTCTCT 830 890 TTTACCCCAG 890 950 TAAACTACTG 950 1010 ACTTTGGCAG 1010	GACTTAA ::::::: GACTTAA 840 900 CTTGAAT :::::: CTTGAAT 900 960 GCAAAAA :::::: GCGAAAA 960 1020 TGCTACT :::::: TGCTACT 1020
U95825 ./wwwt U95825 ./wwwt U95825	AGGTTCTGATGCTTC :::::::::::::::::::::::::::::::::	GGGAAAACAT SSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSS	CTATCAGCGA ::::::::::::::::::::::::::::::::	ATTTGTCAGAC E:::::::::: ATTTGTCAGAC 820 880 FGCTCTCTGTT 880 940 FACAAGTTGTT 940 1000 AAAACAAGCCA E::::::::: AAAACAAGCCA 1000 1060	GCATGTCTTT S:::::::: GCATGTCTCT 830 890 TTTACCCCAG 890 950 TAAACTACTG 950 1010 ACTTTGGCAG 1010 1070	GACTTAA ::::::: GACTTAA 840 900 CTTGAAT :::::: CTTGAAT 900 960 GCAAAAA :::::: GCGAAAA 960 1020 TGCTACT :::::: TGCTACT 1020 1080
U95825 ./wwwt U95825 ./wwwt U95825 ./wwwt	AGGTTCTGATGCTTC :::::::::::::::::::::::::::::::::	GGGAAAACAT SSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSS	CTATCAGCGA ::::::::::::::::::::::::::::::::	ATTTGTCAGAC E::::::::::: ATTTGTCAGAC 820 880 FGCTCTCTGTT 880 P40 FACAAGTTGTT 940 1000 AAAACAAGCCA E::::::::::: AAAACAAGCCA 1000 1060 GCCTGGAATGT	GCATGTCTTT S:::::::: GCATGTCTCT 830 890 TTTACCCCAG 890 950 TAAACTACTG 250 1010 ACTTTGGCAG 1010 1070 TGTGAAATTT	GACTTAA ::::::: GACTTAA 840 900 CTTGAAT :::::: CTTGAAT 900 960 GCAAAAA :::::: GCGAAAA 960 1020 TGCTACT :::::: TGCTACT 1020 1080 GCTAGCC :::::::
U95825 ./wwwt U95825 ./wwwt U95825 ./wwwt	AGGTTCTGATGCTTC :::::::::::::::::::::::::::::::::	GGGAAAACAT SSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSS	CTATCAGCGA ::::::::::::::::::::::::::::::::	ATTTGTCAGAC SINGLE STATE STAT	GCATGTCTTT S:::::::: GCATGTCTCT 830 890 TTTACCCCAG 890 950 TAAACTACTG 250 1010 ACTTTGGCAG 1010 1070 TGTGAAATTT CGTGAAATTT	GACTTAA ::::::: GACTTAA 840 900 CTTGAAT :::::: CTTGAAT 900 960 GCAAAAA :::::: GCGAAAA 960 1020 TGCTACT :::::: TGCTACT 1020 1080 GCTAGCC ::::::: GCTAGCC
U95825 ./wwwt U95825 ./wwwt U95825 ./wwwt	AGGTTCTGATGCTTC :::::::::::::::::::::::::::::::::	GGGAAAACAT SSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSS	CTATCAGCGA ::::::::::::::::::::::::::::::::	ATTTGTCAGAC E::::::::::: ATTTGTCAGAC 820 880 FGCTCTCTGTT 880 P40 FACAAGTTGTT 940 1000 AAAACAAGCCA E::::::::::: AAAACAAGCCA 1000 1060 GCCTGGAATGT	GCATGTCTTT S:::::::: GCATGTCTCT 830 890 TTTACCCCAG 890 950 TAAACTACTG 250 1010 ACTTTGGCAG 1010 1070 TGTGAAATTT	GACTTAA ::::::: GACTTAA 840 900 CTTGAAT :::::: CTTGAAT 900 960 GCAAAAA :::::: GCGAAAA 960 1020 TGCTACT :::::: TGCTACT 1020 1080 GCTAGCC :::::::
U95825 ./wwwt U95825 ./wwwt U95825 ./wwwt	AGGTTCTGATGCTTC :::::::::::::::::::::::::::::::::	GGGAAAACAT SSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSS	CTATCAGCGA ::::::::::::::::::::::::::::::::	ATTTGTCAGAC SINGLE STATE STAT	GCATGTCTTT S:::::::: GCATGTCTCT 830 890 TTTACCCCAG 890 950 TAAACTACTG 250 1010 ACTTTGGCAG 1010 1070 TGTGAAATTT CGTGAAATTT	GACTTAA ::::::: GACTTAA 840 900 CTTGAAT :::::: CTTGAAT 900 960 GCAAAAA :::::: GCGAAAA 960 1020 TGCTACT :::::: TGCTACT 1020 1080 GCTAGCC ::::::: GCTAGCC
U95825 ./wwwt U95825 ./wwwt U95825 ./wwwt U95825	AGGTTCTGATGCTTC :::::::::::::::::::::::::::::::::	GGGAAAACAT SSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSS	CTATCAGCGA ::::::::::::::::::::::::::::::::	ATTTGTCAGAC SINGLE STATE STAT	GCATGTCTTT S:::::::: GCATGTCTCT 830 890 TTTACCCCAG 890 950 TAAACTACTG 250 1010 ACTTTGGCAG 1010 1070 TGTGAAATTT 1070 1130	GACTTAA ::::::: GACTTAA 840 900 CTTGAAT :::::: CTTGAAT 900 960 GCAAAAA ::::: GCGAAAA 960 1020 TGCTACT :::::: TGCTACT 1020 1080 GCTAGCC ::::::: GCTAGCC 1080 1140

U95825		::::::::::::::::::::::::::::::::::::::	CATCCTGATT	TAGCAAAAGA 1110	:::::::: ACTTAACAGAO 1120	TATCTTAAA 1130	GTGAGGT
./wwwt		1150 ACCCTGAGO	1160 GAAGCTATTA	1170 GACATGATGI	1180 TATTGTGTC	1190 ATAGTTACA	1200 GCTGCTA
U95825	CACATG	,			::::::::: TATTGTGTCA 1180		
		1210	1220	1230		1250	1260
	:::::	::::::::	: : : : : : : : :		TAATTTTGTC		::::::
U95825		ATATTCTTO 1210	CTGGTCAATG 1220	ATCACTTACT 1230	TAATTTTGTO	GGAGAGAGA 1250	ACATTAG 1260
./wwwt		1270 GATGGAGAG	1280 GTACGCAAAG	1290 AAGCCATGAT	1300 GGGACTTGCC	1310 CCAAATTTAT	1320 AAGAAAT
U95825		GATGGAGA0 1270	GTACGCAAAG 1280	AAGCCATGAT 1290	GGGACTTGCC 1300	1310	1320
/www.t		1330		1350	1360 CAAAACAGAT <i>A</i>	1370 AGCATGGATC	1380 AAAGACA
9.	:::::	::::::::	:::::::::	:::::::::			::::::
U95825	ATGCTT	TACAGTCAC 1330	GCAGCTGGAA 1340	AAGATGCTGC 1350	CAAAACAGATA 1360	AGCATGGATC 1370	AAAGACA 1380
000		1390	1400	1410	1420	1430	1440
./wwwt					ATGATCGACTA		
U95825		TACATATA	rattatcaaa	ATAGTATTGA	ATGATCGACTA	ACTTGTTGAA	CGGATCT
		1390	1400	1410	1420	1430	1440
./wwwt	TTGCTC	1450 CAATACATGO	1460 GTTCCTCACA	1470 ATTTAGAAAC	1480 CTACAGAACGO	1490 SATGAAATGC	1500 TTATATT
	::::::	::::::::					
095825	TTGCTC	AATACATGO 1450	1460	1470	CTACAGAACGO 1480	1490	1500
* 1		1510	1520	1530	1540	1550	1560
./wwwt					AGCATTGAAT		
1195825		ATGCCACAC			AAGCATTGAA1		
033023		1510	1520	1530	1540	1550	1560.
:		1570	1580	1590	1600	1610	1620
./wwwt					TTGACTTGAT		
U95825					TTGACTTGATT		
							20.0
./wwwt					1660 TGGTTATTAC <i>I</i>		
1105925					::::::::::::::::::::::::::::::::::::::		
093623	AIGCCA	1630	1640	1650	1660	1670	1680
./wwwt	CTGGT	1690 AGGCTCAG	1700 GATTTCATGA	1710 AGAAATTCAG	1720 CACAGGTGTT	1730 AGAAGATGAT	1740 GAGAAAA
TIOCOOF					: : : : : : : : : : : : : : : : : : :		
U95825	CTGGTA	AAGGCTCAG 1690	GATTTCATGA 1700	1710	CACAGGTGTTI 1720	AGAAGATGAT 1730	1740
		1750	1760	1770	1780	1790	1800

./wwwt	TAAGAAAGCAGTTAGAAGTACTTGTTAGTCCAACATGCTCCTGCAAGCAGGCTGAAGGTT
U95825	TAAGAAAGCAGTTAGAAGTACTTGTTAGTCCAACATGCTCCTGCAAGCAGGCTGAAGGTT 1750 1760 1770 1780 1790 1800
	1730 1700 1770 1730 1730
	1810 1820 1830 1840 1850 1860
./wwwt	GTGTGCGTGAAATAACTAAGAAGTTGGGCAACCCCAAACAGCCTACAAATCCTTTCCTGG
1105925	######################################
093023	1810 1820 1830 1840 1850 1860
4	1870 1880 1890 1900 1910 1920
./wwwt	AAATGATCAAGTTTCTCTTGGAGAGGATAGCACCTGTGCACATAGATACCGAATCTATCA
1195825	AAATGATCAAGTTTCTCTTGGAGAGGATAGCACCTGTGCACATAGATACCGAATCTATCA
0,000	1870 1880 1890 1900 1910 1920
	'
/+-	1930 1940 1950 1960 1970 1980 GTGCTCTTATTAAACAAGTGAACAAATCAATAGATGGAACAGCAGATGATGAAGATGAGG
./wwwt	GIGCICITATTAAACAAGIGAACAAATCAATAGATGGAACAGCAGATGATGAAGATGAGG
U95825	GTGCTCTTATTAAACAAGTGAACAAATCAATAGATGGAACAGCAGATGATGAAGATGAGG
	1930 1940 1950 1960 1970 1980
	1000 0000 0010 0000 0000 0000
/sasasa+	1990 2000 2010 2020 2030 2040 GTGTTCCAACTGATCAAGCCATCAGAGCAGGTCTTGAACTGCTTAAGGTACTCTCATTTA
./www.c	didirectacidateadecaricadadeadorei idaacidei iaadoraciei earii ia
U95825	$\tt GTGTTCCAACTGATCAAGCCATCAGAGCAGGTCTTGAACTGCTTAAGGTACTCTCATTTA$
	1990 2000 2010 2020 2030 2040
	2050 2060 2070 2080 2090 2100
./wwwt	CACATCCCATCTCATTTCATTCTGCTGAAACATTTGAATCATTACTGGCTTGTCTGAAAA
	:::::::::::::::::::::::::::::::::::::::
U95825	CACATCCCATCTCATTTCATTCTGCTGAAACATTTGAATCATTACTGGCCTGTCTGAAAA
	2050 2060 2070 2080 2090 2100
	2110 2120 2130 2140 2150 2160
./wwwt	$\tt TGGATGAAAAAGTAGCAGAAGCTGCACTACAAATTTTCAAAAACACAGGAAGCAAAA$
#10E00E	
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	2110 2120 2130 2110 2130 2100
	2170 2180 2190 2200 2210 2220
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1195825	TTGAAGAGGATTTTCCACACATCAGATCAGCCTTGCTTCCTGTTTTACATCACAAATCTA
0,5025	2170 2180 2190 2200 2210 2220
/	2230 2240 2250 2260 2270 2280
./wwwt	AAAAAGGACCCCCCGTCAAGCCAAATATGCCATTCATTGTATCCATGCGATATTTTCTA
U95825	AAAAAGGACCCCCCGTCAAGCCAAATATGCCATTCATTGTATCCATGCGATATTTTCTA
	2230 2240 2250 2260 2270 2280
	2290 2300 2310 2320 2330 2340
/101101101+	2290 2300 2310 2320 2330 2340 GTAAAGAGACCCAGTTTGCACAGATATTTGAGCCTCTGCATAAGAGCCTAGATCCAAGCA
. / www.c	::::::::::::::::::::::::::::::::::::::
U95825	${\tt GTAAAGAGGCCCAGTTTGCACAGATATTTGAGCCTCTGCATAAGAGCCTAGATCCAAGCA}$
	2290 2300 2310 2320 2330 2340
	2350 2360 2370 2380 2390 2400
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	2350 2360 2370 2380 2390 2400

./wwwt	2410 ATCAATTTGCTGCT					
U95825	ATCAATTTGCTGCTC					
./wwwt	2470 TGAATGATCGGCTT					
U95825	TGAATGATCGCCTTC					
./wwwt	2530 CTCCTGAGACAATG					
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./wwwt	2590 TGAAAAATAATCACA					
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./wwwt	2650 ATAGTGATGGAGAC					
U95825	ATAGTGATGGAGAC					
./wwwt	2710 GACTTGCTGCTGGGA					
U95825	GACTTGCTGCTGGGA					
./wwwt	2770 TCACATTAGAACAA					
U95825	TCACATTAGAACAA 2770					
./wwwt	2830 GACAAGTGTTTGCCC					
U95825	GACAAGTGTTTGCCC					
./wwwt	2890 ATATGGCAATCTGTG					
U95825	ATATGGCAATCTGT0					
./wwwt	2950 GGCAATGTTTGGTG					
U95825	GGCAATGTTTGGTGA 2950					
./wwwt	3010 TTAGTGAAAAATTA	3020 FTGTCTCTTC	3030 TACCAGAGTA	3040 ATGTTGTTCC	3050 ATATACAATT	3060 CACCTTT
บ95825	TTAGTGAAAAATTA 3010					

./wwwt	3070 TGGCACATGACCCAG					3120 TAAAG
U95825	TGGCACATGACCCAGA					::::: TAAAG 3120
./wwwt	3130 AATGTCTTTGGTTTG					
บ95825	AATGTCTTTGGTTTG					
./wwwt	3190 TTATCAGAAAGATGG					
U95825	TTATCAGAAAGATGG					
./wwwt	3250 CAAAAATGAATGAAA			-		
U95825	CAAAAATGAATGAAAA 3250					
./wwwt	3310 AGAGTACTACATACAG					
U95825	AGAGTACTACATACAO 3310					
./wwwt	3370 CTCAACCTGACAAGAA					3420 ATCAT
U95825	CTCAACCTGACAAGAA 3370					ATCAT 3420
./wwwt	3430 TTTTCACTCCTGGAA					
U95825	TTTTCACTCCTGGAAZ 3430					
./wwwt	3490 CATCAGCAGGCAAGCA					
U95825	CATCAGCAGGCAAGCA 3490	AATCTCAGAC 3500	CAAATCATCA 3510	CGAATGGAAA 3520	CTGTAGGCAA' 3530	TGCAA 3540
./wwwt	3550 GCAGCAGCTCAAATCO					
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./wwwt	3610 TGGATCACAGTGAAA					3660 AAGTG :::::
U95825	TGGATCACAGTGAAAA 3610	ATGAAGATTA 3620	CACAATGTCT 3630	TCACCTTTGC 3640	CGGGGAAAAG 3650	AAGTG 3660
./wwwt	3670 ACAAGAGAGACGACTO	3680 CTGATCTTGT	3690 AAGGTCTGAA	3700 TTGGAGAAGC	3710 CTAGAGGCAG	3720 GAAAA
U95825	ACAAGAGAGACGACT					

	3670	3680	3690	3700	3710	3720
	3730	3740	3750	3760	3770	3780
./wwwt	AAACGCCCGTCACA	GAACAGGAG(GAGAAATTAGO	STATGGATGA	CTTGACTAAG	
U95825	AAACGCCCGTCACA	:::: :::: GAACGGGAG(GAGAAATTAGO	GTATGGATGA	CTTGACTAAG	:::::: TTGGTAC
0000	3730	3740	3750	3760	3770	3780
	3790	3800	3810	3820	3830	3840
./wwwt	AGGAACAGAAACCT					
	:::::::::::::::::::::::::::::::::::::::					
U95825	AGGAACAGAGACCT	AAAGGCAGT(3800	CAGCGAAGTCO 3810	GAAAAGAGG 3820	CCATACGGCT 3830	TCAGAAT 3840
	3730	3000	3010	3020	3030	5040
, ,	3850	3860	3870	3880	3890	3900
./wwwt	CTGATGAACAGCAG					
U95825	CTGATGAACAGCAG					
	3850	3860	3870	3880	3890	3900
	3910	3920	3930	3940	3950	3960
./wwwt	ATGAACAGAATAGT					
1105025	ATGAACAGAATAGT					
093623	3910	3920	3930	3940	3950	3960
	0.050	2022		1000		
/www.t	3970 GAGGTACACCAAAA	3980	3990 ACAATGAAAA	4000 СТТСТАААА	4010 AGGAAGCAAA	4020 TAAAAA
. / www.c	····					
U95825						
	3970	3980	3990	4000	4010	4020
	4030	4040	4050	4060	4070	4080
./wwwt	CTGGACCTCCAGCA					
U95825	CTGGACCTCCAGCA					
	4030	4040	4050	4060	4070	4080
	4090	4100	4110	4120	4130	4140
./wwwt	AGAAGTCCAAAAGC					
095825	AGAAGTCCAAAAGC	4100	4110	4120	4130	4140
/1.11.11.1+	4150 CTGAATCTAGTGCA	4160	4170 ACACAGTCCAC	4180	4190	4200
. / www.c	:::::::::::					
U95825	CTGAATCTAGTGCA					
	4150	4160	4170	4180	4190	4200
	4210	4220	4230	4240	4250	4260
./wwwt	CAAAAACGCCATCA					
U95825	CAAAAACGCCATCA					
	4210	4220	4230	4240	4250	4260
	4270	4280	4290	4300	4310	4320
./wwwt	AAACCAATTTCAAA'					
	:::::::::::::::::::::::::::::::::::::::					
U95825	AAACCAATTTCAAA' 4270	TTATTTTGC 4280	AAAAGTTCCT <i>I</i> 4290	AATTTGTAA 4300	ACATACATAT 4310	TGCTGTA 4320
	7270	7200	3430	4000	4010	4320
	4330	4340	4350	4360	4370	4380
./WWWt	TTTAAATTCCATAT					
						•

U95825	TTTAAATTCCATAT	ATTTAGCCCC 4340	ATTACACTAC 4350	GTACGGCGGC	CGAAGTGCTA 4370	AAAGGGA 4380
		*				
./wwwt	4390 ACGGCGATGAACAA	4400 ATGTAATTAA	4410 TAACTTTCTC	4420 CTGTGAAAGC	4430 TTTGGAAAAA	4440 TCTTTTT
	:::::::::::::::::::::::::::::::::::::::					
U95825	ACGGCGATGAACAA					
	4390	4400	4410	4420	4430	4440
,	4450	4460	4470	4480	4490	4500
./wwwt	TTTTTTTTTTTTT					
	:::::::::::::::::::::::::::::::::::::::					
U95825	TTTTTTTTTTTTT					
	4450	4460	4470	4480	4490	4500
	4510	4520	4530	4540	4550	4560
./wwwt	GACTGCTGAAGAGT	GGACAGTTGG	ACCTTACTT	GGTGACCCC	ATACATTTGT	GGTCACA
	:::::::::::::::::::::::::::::::::::::::					
U95825	GACTGCTGAAGAGT					
	4510	4520	4530	4540	4550	4560
	4570	4580	4590	4600	4610	4620
./wwwt	TGCTTTAGCCATAC					
095825	TGCTTTAGCCATAC					
ŧ	4570	4580	4590	4600	4610	4620
	4630	4640	4650	4660	4670	4680
./wwwt	TGGCTATGTAGACA					
		:::::::::				::::::
บ95825	TGGCTATGTAGACA	TAAAGAAGAA				
	4630	4640	4650	4660	4670	4680
	4690	4700	4710	4720	4730	4740
./wwwt	TGATTTCTGAAGTG					
	:::::::::::::::::::::::::::::::::::::::					
U95825	TGATTTCTGAAGTG				CTGACAGTAC	CCGACTG
	4690	4700	4710	4720	47.30	4740
	4750	4760	4770	4780	4790	4800
./wwwt	TTTATTGGATCTAT		AGAATTTGTT		CTTAAGCAGT	AATCTGT
	:::::::::::::::::::::::::::::::::::::::					
U95825	TTTATTGGATCTAT					
	4750	4760	4770	4780	4790	4800
	4810	4820	4830	4840	4850	4860
./wwwt	CAGTGTTTGTATTT	GTATTTTCTG	CAATTTTACT	GTGAAAAAA	ATTTGTTTT	CAACAAT
	:::::::::::::::::::::::::::::::::::::::					
U95825	CAGTGTTTGTATTT					
	4810	4820	4830	4840	4850	4860
	4870	4880	4890	4900	4910	4920
./wwwt	TGGTGTCATTTTCT	TGATGTCACT	ATTTGTTGG <i>F</i>	AGAGTTAAATO	GTCTCTTCC	CTTTGTG
	:::::::::::::::::::::::::::::::::::::::					
U95825	TGGTGTCATTTTCT					
	4870	4880	4890	4900	4910	4920
	4930	4940	4950	4960	4970	4980
./wwwt	TATCTTACCTAGTG					
.,	:::::::::::::::::::::::::::::::::::::::					
U95825	TATCTTACCTAGTG				GTGCTAAAT	
	4930	4940	4950	4960	4970	4980
	4000	5000	5010	5020	5020	5040
/1475-25-2+	4990 CATTACACCAGAAG	5000 GATGCCTCTG	5010 ATAGGAGGAC	5020	5030 ATTGTGAAA	5040

				:::::::::		:::::
U95825	CATTACACCAGAAGG	ATGCCTCTGA	ATAGGAGGACA	ACCATGCAA	TTGTGAAAT	AGTCCT
	4990	5000	5010	5020	5030	5040
	5050	5060	5070	5080	5090	5100
./wwwt	GAAGTTCTTGGATTA	CTTTACACCT	CAGTATTGAT	TTGTCCCAGA	ATTTTCTGG	CCTTTC
	:::::::::::::::::::::::::::::::::::::::	:::::::::	:::::::::	:::::::::	::::::::	:::::
U95825	GAAGTTCTTGGATTA	CTTTACACCT	CAGTATTGAT	TTGTCCCAGE	ATTTTCTGG	CCTTTC
	5050	5060	5070	5080	5090	5100
	3000	0000	00.0	0000	3030	3100
	5110	5120	5130	5140	5150	5160
/www+	ATGGCAATGAAAATT	=		-		0 - 00
.,						
1105025	ATGGCAATGAAAATT					CTCTTT
093623						
	5110	5120	5130	5140	5150	5160
	5150	5100	E100	5000	5010	5000
	5170				5210	5220
./wwwt	TAAAATAATGTACTG	AATTCTTTAI	CCCATTTTAT	'CATCCTTTC <i>F</i>	AGTTTTTATT.	AATCTA
		:::::::::::::::::::::::::::::::::::::::	::::::::	::::::::	:::::::	:::::
U95825	TAAAATAATGTACTG	AATTCTTTAT	CCCATTTTAT	CATCCTTTC	GTTTTTATT.	AATCTA
	5170	5180	5190	5200	5210	5220
				•		
	5230	5240	5250	5260	5270	
./wwwt	CTGTATCAATAAAAT	TCTGTAATTI	GAATGAGTAA	AAAAAAAAA	AAAAA	
	:::::::::::::::::::::::::::::::::::::::	:::::::::	:::::::			
U95825	CTGTATCAATAAAAT	TCTGTAATTT	GAATGAGT			
	5230	5240	5250			

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